

# R&D Mechanical Engineer at Sandia (Experienced)



**Location: Albuquerque, NM; Livermore, CA; other US sites**  
**Full Time, Regular**

## What Your Job Will Be Like

Are you passionate about research and development that supports national security missions in a variety of high impact areas? Do you dream of developing advanced design concepts in support of national security objectives? If so, you will want to apply for this opportunity to join a team of creative thinkers in applying mechanical engineering skills to help secure our nation.

As part of this diverse multidisciplinary team, you will work alongside world-class authorities and emerging leaders and use your skills in any of the following:

- Aerodynamics and aerospace
- Code development for finite elements
- Destructive and nondestructive testing
- Field and lab testing and product integration
- Fluid mechanics, including microfluidics
- Material selection and fabrication oversight
- Modeling, simulation, and visualization of mechanical systems
- System assembly and infrastructure analysis
- Applied mechanics
- Computational fluid dynamics
- Dynamics & kinematics
- Finite element analysis
- Heat transfer and thermal analysis
- Mechanical design, testing, and control including components as well as systems
- Production and manufacturing

Based on your interests, you will improve national security by engaging in areas that could include:

- Additive manufacturing
- Autonomous systems
- Energetics and explosives
- Hypersonic flight vehicles
- Novel materials
- Packaging for mechanical shock
- Product realization
- Radar systems
- Satellite systems
- Advanced weapon concept
- Blast on structures
- Energy program enhancement and protection
- Hypervelocity impact
- Nuclear deterrence
- Power sources
- Propulsion systems
- Remote sensing
- Thermal protection design

This position may require travel to support current efforts and identify new opportunities for growing our capabilities and impact

When applying to this requisition, you may be interviewed and/or hired by one of several multi-disciplinary teams providing mechanical engineering expertise.

## Qualifications We Require

- Master's in a related discipline plus 1 year of experience; or Bachelor's in a related discipline plus 5 years' experience
- Experience in mechanical engineering
- Ability to obtain and maintain a DoE Q clearance

## Qualifications We Desire

- Degree(s) in Mechanical Engineering, Aerospace/Aeronautical Engineering, Physics, or Material Science/Engineering
- Experience in space, flight, and/or weapon systems
- Experience in a subset of the following: mechanical design, modeling & simulation, systems integration, environmental test, product development, GD&T, CAD tools, programming, controls
- Experience working effectively in a collaborative and interdisciplinary team environment
- Ability to understand a variety of technical disciplines
- Superb communication, teamwork, and people skills with demonstrable ability to perform effectively in a teaming environment
- Critical thinking, synthesis and problem-solving skills
- Ability to prioritize, lead, and complete projects within appropriate scope and timeframe
- Ability to obtain an SCI clearance

## About Our Team

Most systems involved in national security are complex electrical-mechanical systems. The overwhelming presence of mechanical engineers at Sandia demonstrates the importance of their role in solving complex technical challenges to national security across a diverse spectrum of mission areas. The breadth and depth of our mechanical engineering experts allow them to develop and deliver creative solutions to enable the continued success of Sandia's programs across a diverse spectrum of mission areas.

Apply online at:  
[sandia.gov/careers](http://sandia.gov/careers)  
Job #: 666184

## About Sandia:

Our culture values work-life balance; we offer programs such as flexible work schedules with alternate Fridays off, on-site fitness facilities, and three weeks of vacation. Sandia provides employees with a comprehensive benefits package that includes medical, dental, vision, and a 401(k) with company-match.

Sandia National Laboratories is the nation's premier science and engineering lab for national security and technology innovation. We are a world-class team of scientists, engineers, technologists, post docs, and visiting researchers all focused on cutting-edge technology, ranging from homeland defense, global security, biotechnology, and environmental preservation to energy and combustion research, computer security, and nuclear defense.

*World-changing technologies.  
Life-changing careers.*

Learn more about Sandia:  
[www.sandia.gov](http://www.sandia.gov)